

Fig. 1

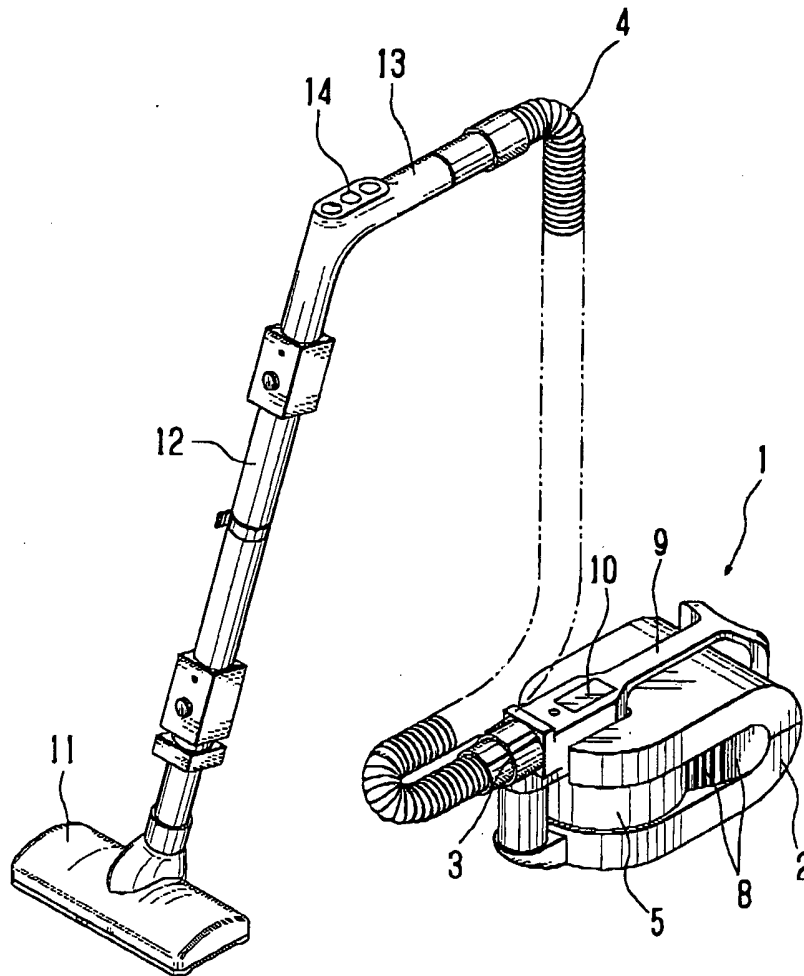


Fig. 2

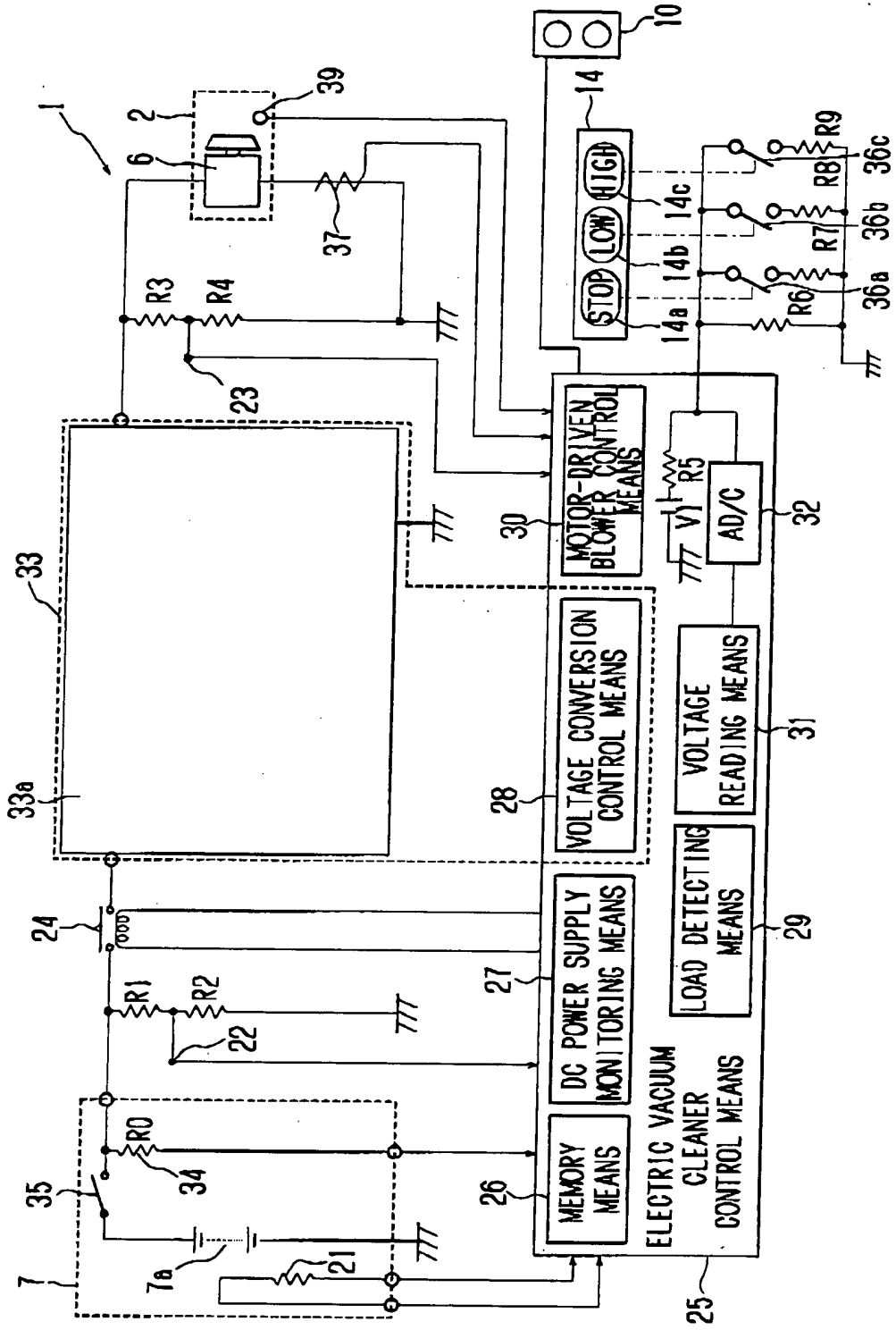


Fig. 3

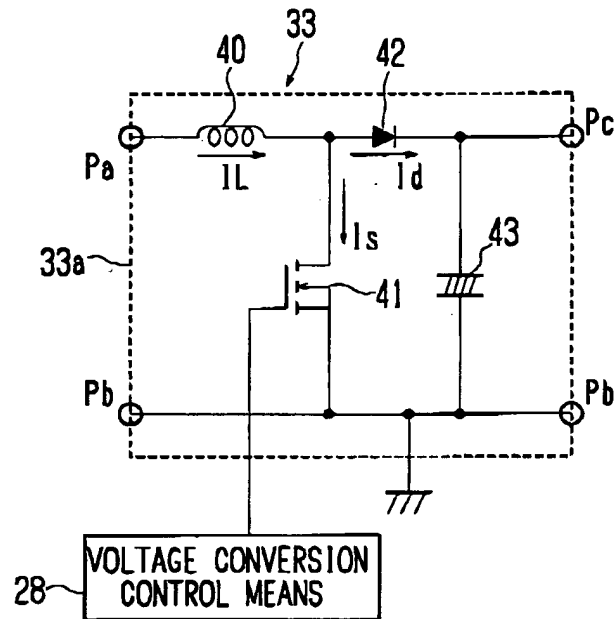


Fig. 4

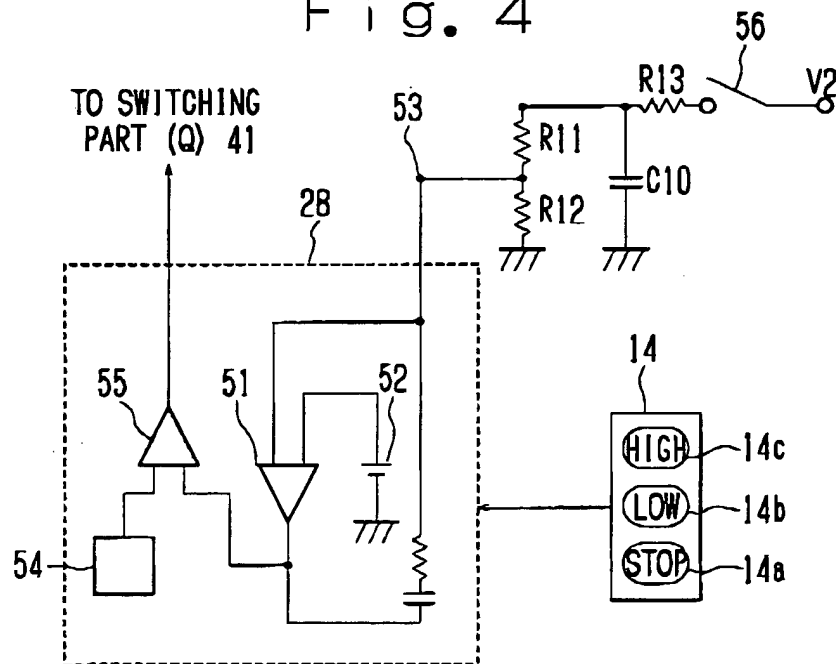


Fig. 6

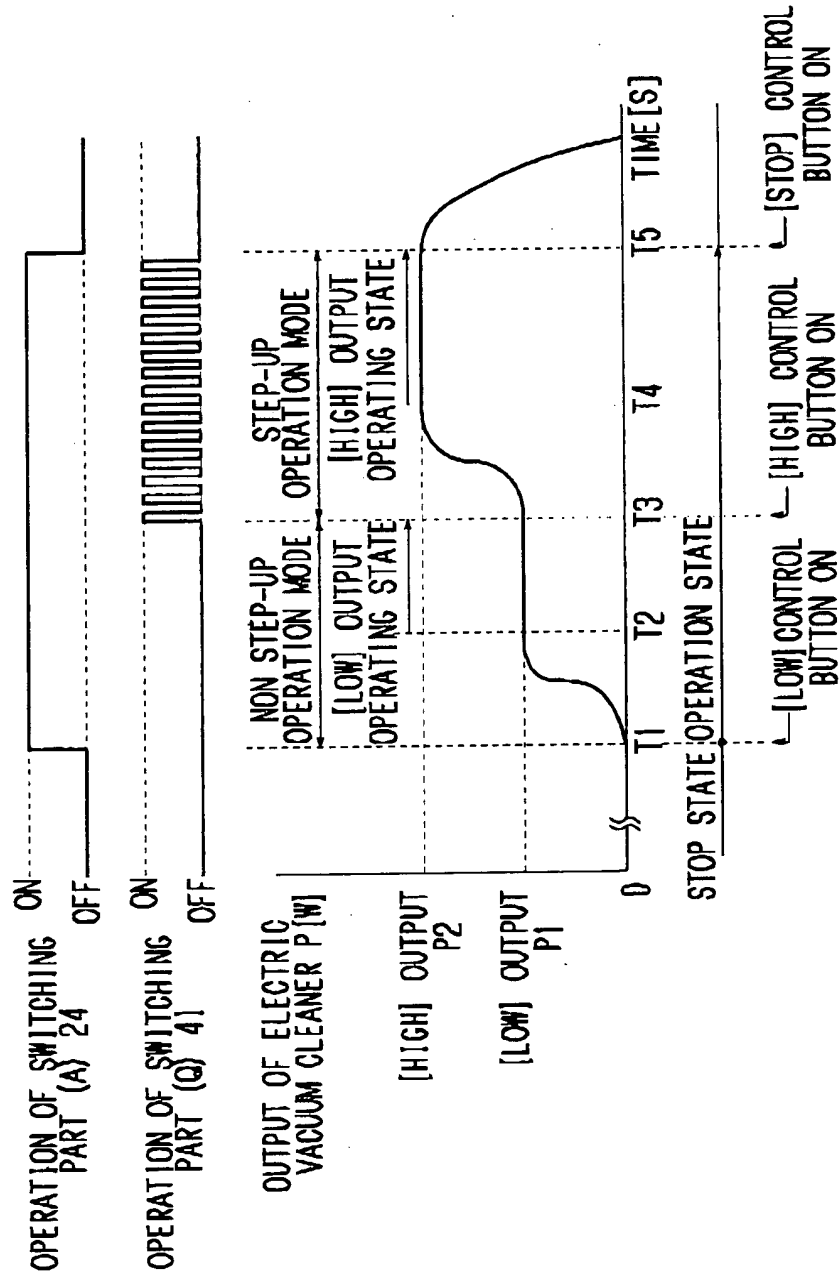


Fig. 7

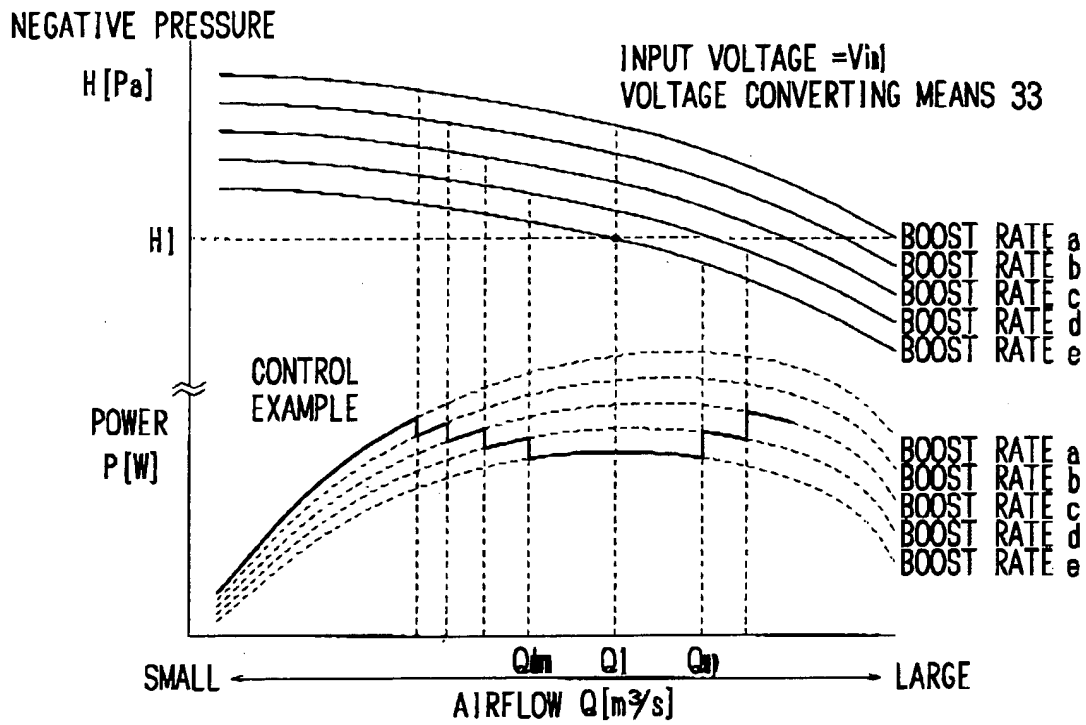


Fig. 8

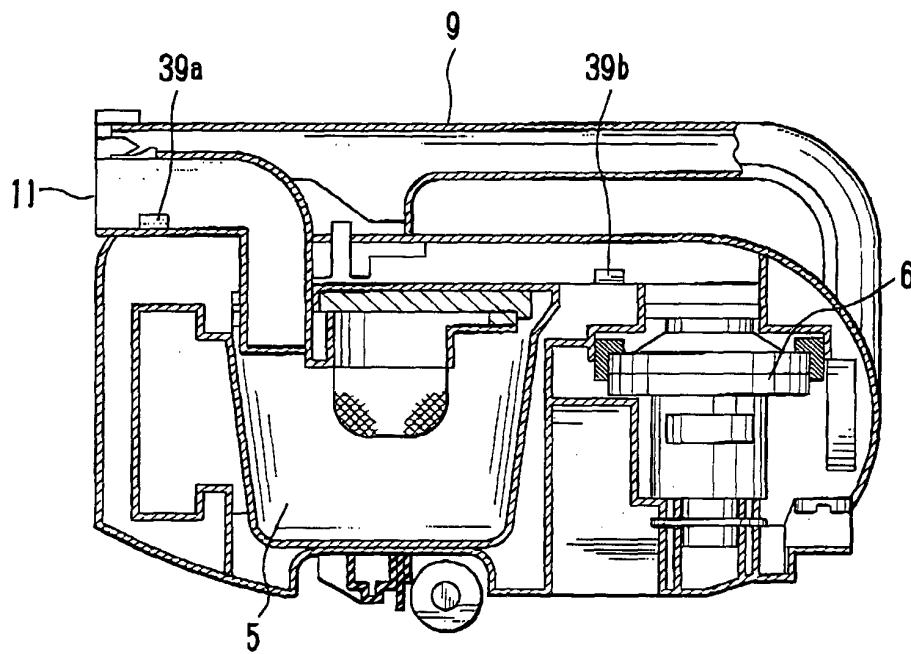


Fig. 9

BOOST RATE a

NEGATIVE PRESSURE	AIRFLOW
H_{a_1}	Q_{a_1}
H_{a_2}	Q_{a_2}
⋮	⋮
H_{a_n-1}	Q_{a_n-1}
H_{a_n}	Q_{a_n}

BOOST RATE b

NEGATIVE PRESSURE	AIRFLOW
H_{b_1}	Q_{b_1}
H_{b_2}	Q_{b_2}
⋮	⋮
H_{b_n-1}	Q_{b_n-1}
H_{b_n}	Q_{b_n}

BOOST RATE c

NEGATIVE PRESSURE	AIRFLOW
H_{c_1}	Q_{c_1}
H_{c_2}	Q_{c_2}
⋮	⋮
H_{c_n-1}	Q_{c_n-1}
H_{c_n}	Q_{c_n}

BOOST RATE d

NEGATIVE PRESSURE	AIRFLOW
H_{d_1}	Q_{d_1}
H_{d_2}	Q_{d_2}
⋮	⋮
H_{d_n-1}	Q_{d_n-1}
H_{d_n}	Q_{d_n}

BOOST RATE e

NEGATIVE PRESSURE	AIRFLOW
H_{e_1}	Q_{e_1}
H_{e_2}	Q_{e_2}
⋮	⋮
H_{e_n-1}	Q_{e_n-1}
H_{e_n}	Q_{e_n}

Fig. 10

INPUT VOLTAGE OF VOLTAGE CONVERTING MEANS 33 (OUTPUT VOLTAGE OF RECHARGEABLE BATTERY 10a)	RANGE OF AIRFLOW	BOOST RATE
$V_b \sim V_a$	$Q_{dwn_a1} \sim Q_{up_a1}$	U_{x1}
	$Q_{dwn_b1} \sim Q_{up_b1}$	U_{x2}
	$Q_{dwn_c1} \sim Q_{up_c1}$, $Q_{dwn_c2} \sim Q_{up_c2}$	U_{x3}
	$Q_{dwn_d1} \sim Q_{up_d1}$, $Q_{dwn_d2} \sim Q_{up_d2}$	U_{x4}
	$Q_{dwn_e1} \sim Q_{up_e1}$	U_{x5}
$V_c \sim V_b$	$Q_{dwn_a2} \sim Q_{up_a2}$	U_{y1}
	$Q_{dwn_b2} \sim Q_{up_b2}$	U_{y2}
	$Q_{dwn_c3} \sim Q_{up_c3}$, $Q_{dwn_c4} \sim Q_{up_c4}$	U_{y3}
	$Q_{dwn_d3} \sim Q_{up_d3}$, $Q_{dwn_d4} \sim Q_{up_d4}$	U_{y4}
	$Q_{dwn_e2} \sim Q_{up_e2}$	U_{y5}
$V_d \sim V_c$	$Q_{dwn_a3} \sim Q_{up_a3}$	U_{z1}
	$Q_{dwn_b3} \sim Q_{up_b3}$	U_{z2}
	$Q_{dwn_c5} \sim Q_{up_c5}$, $Q_{dwn_c6} \sim Q_{up_c6}$	U_{z3}
	$Q_{dwn_d5} \sim Q_{up_d5}$, $Q_{dwn_d6} \sim Q_{up_d6}$	U_{z4}
	$Q_{dwn_e3} \sim Q_{up_e3}$	U_{z5}
$\sim V_d$	NO BOOSTED	

Fig 11

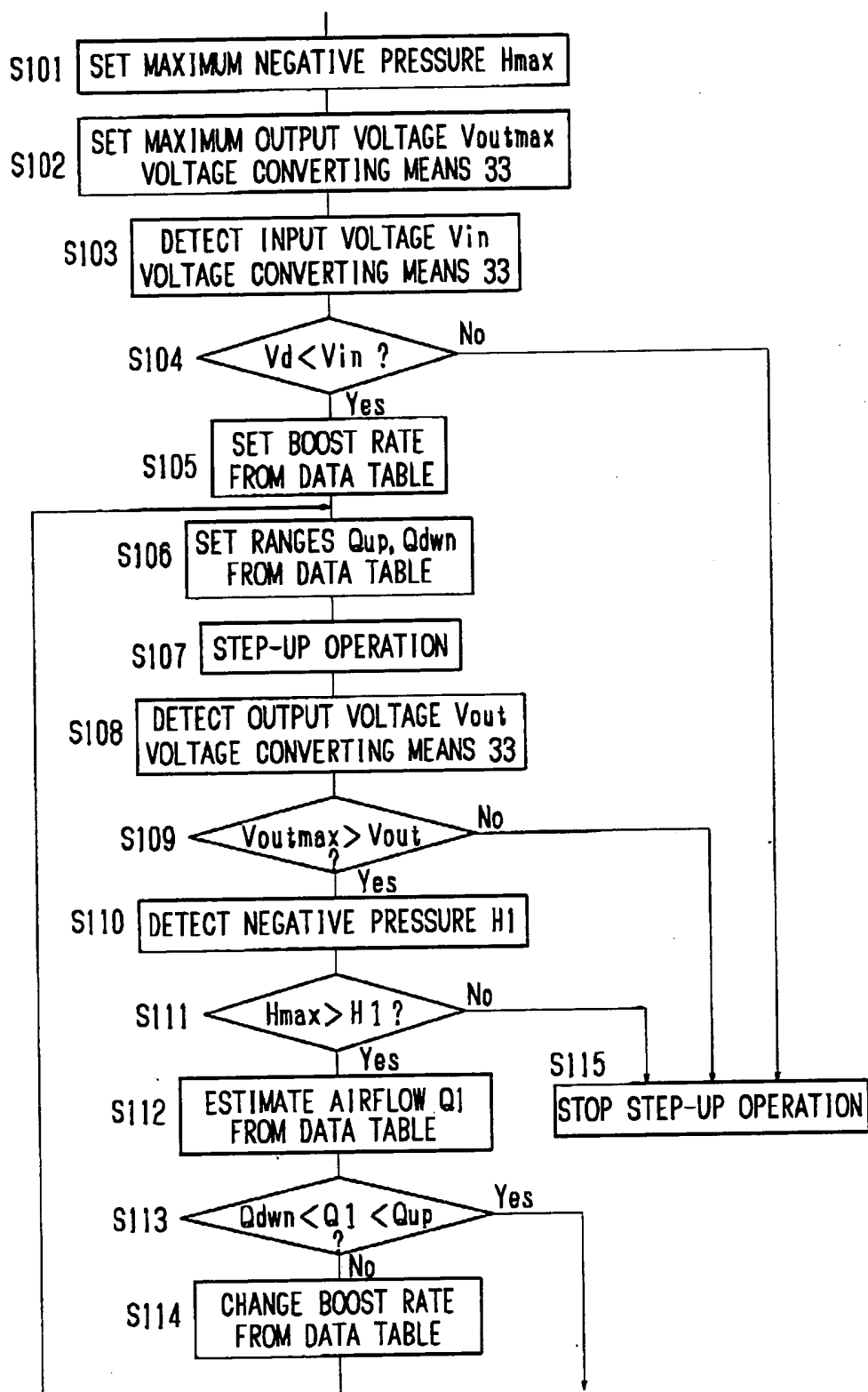


Fig. 12

INPUT VOLTAGE OF VOLTAGE CONVERTING MEANS 33 (OUTPUT VOLTAGE OF RECHARGEABLE BATTERY 10a)	RANGE OF CURRENT	BOOST RATE
$V_b \sim V_a$	$I_{dwn_a1} \sim I_{up_a1}$	U_{x6}
	$I_{dwn_b1} \sim I_{up_b1}$	U_{x7}
	$I_{dwn_c1} \sim I_{up_c1}$, $I_{dwn_c2} \sim I_{up_c2}$	U_{x8}
	$I_{dwn_d1} \sim I_{up_d1}$, $I_{dwn_d2} \sim I_{up_d2}$	U_{x9}
	$I_{dwn_e1} \sim I_{up_e1}$	U_{x10}
$V_c \sim V_b$	$I_{dwn_a2} \sim I_{up_a2}$	U_{y6}
	$I_{dwn_b2} \sim I_{up_b2}$	U_{y7}
	$I_{dwn_c3} \sim I_{up_c3}$, $I_{dwn_c4} \sim I_{up_c4}$	U_{y8}
	$I_{dwn_d3} \sim I_{up_d3}$, $I_{dwn_d4} \sim I_{up_d4}$	U_{y9}
	$I_{dwn_e2} \sim I_{up_e2}$	U_{y10}
$V_d \sim V_c$	$I_{dwn_a3} \sim I_{up_a3}$	U_{z6}
	$I_{dwn_b3} \sim I_{up_b3}$	U_{z7}
	$I_{dwn_c5} \sim I_{up_c5}$, $I_{dwn_c6} \sim I_{up_c6}$	U_{z8}
	$I_{dwn_d5} \sim I_{up_d5}$, $I_{dwn_d6} \sim I_{up_d6}$	U_{z9}
	$I_{dwn_e3} \sim I_{up_e3}$	U_{z10}
$\sim V_d$	NO BOOSTED	

Fig. 13

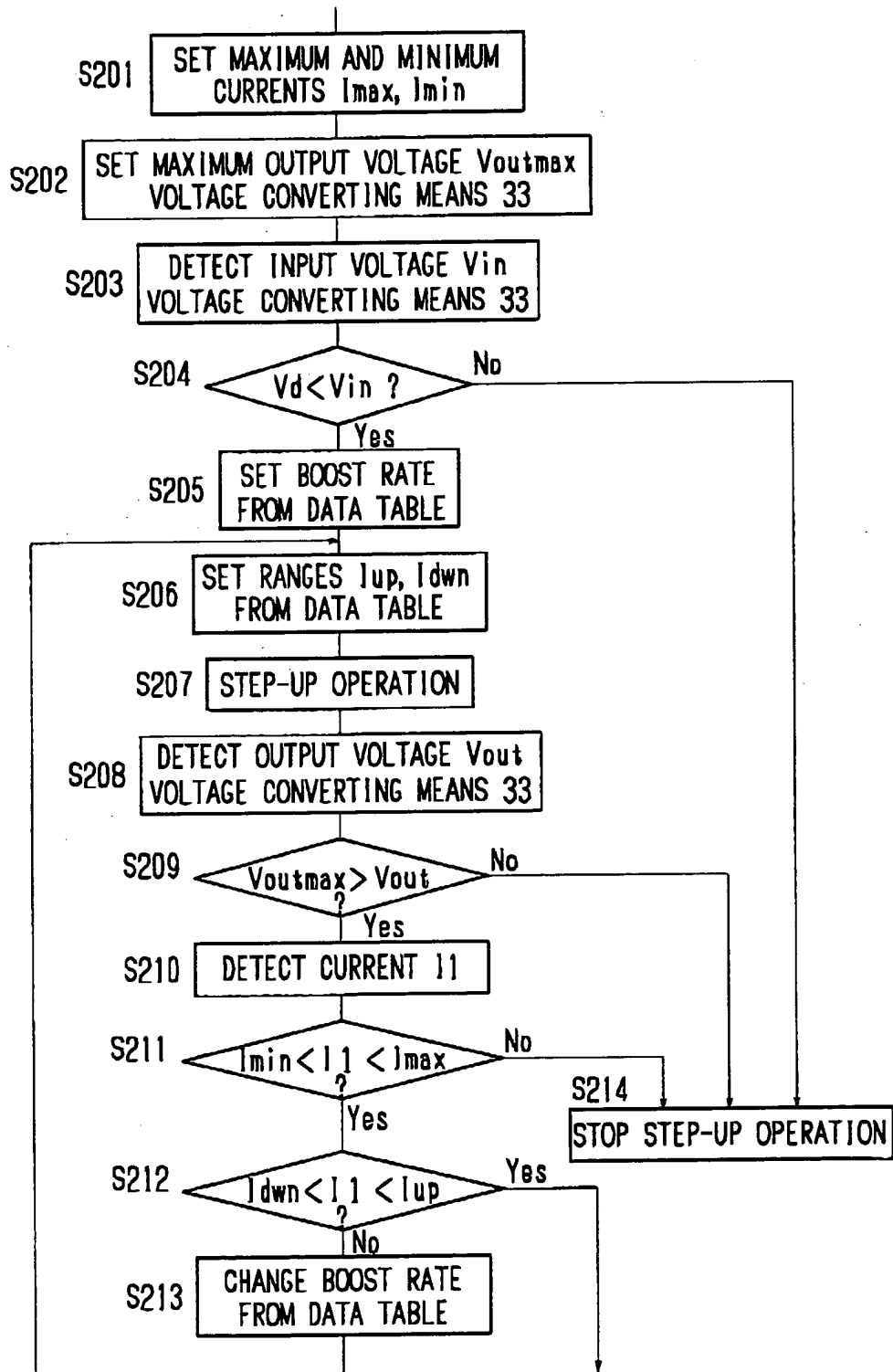


Fig. 14A

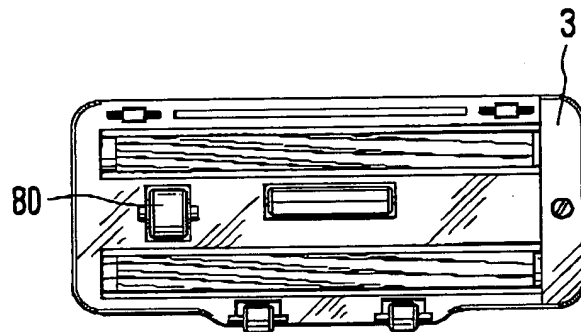


Fig. 14B

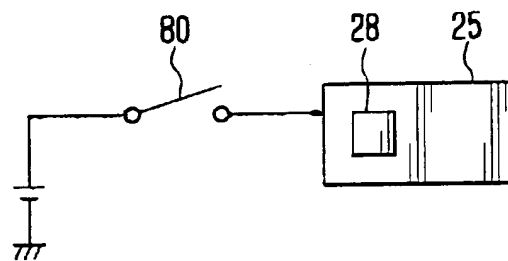


Fig. 15A

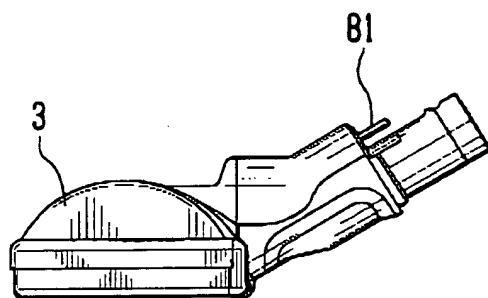


Fig. 15B

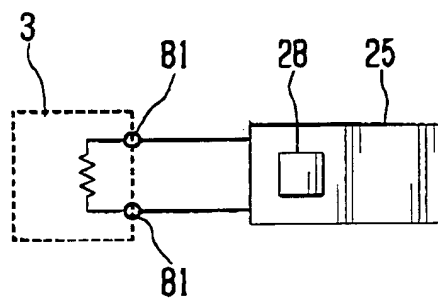


Fig. 16

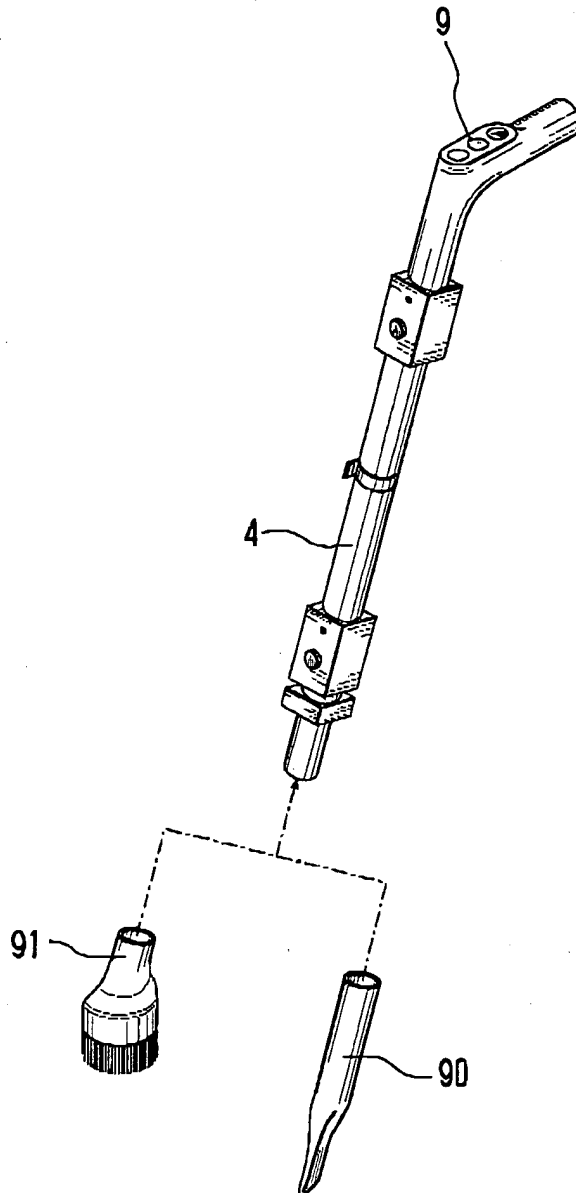


Fig. 17

